Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at http://about.jstor.org/participate-jstor/individuals/early-journal-content.

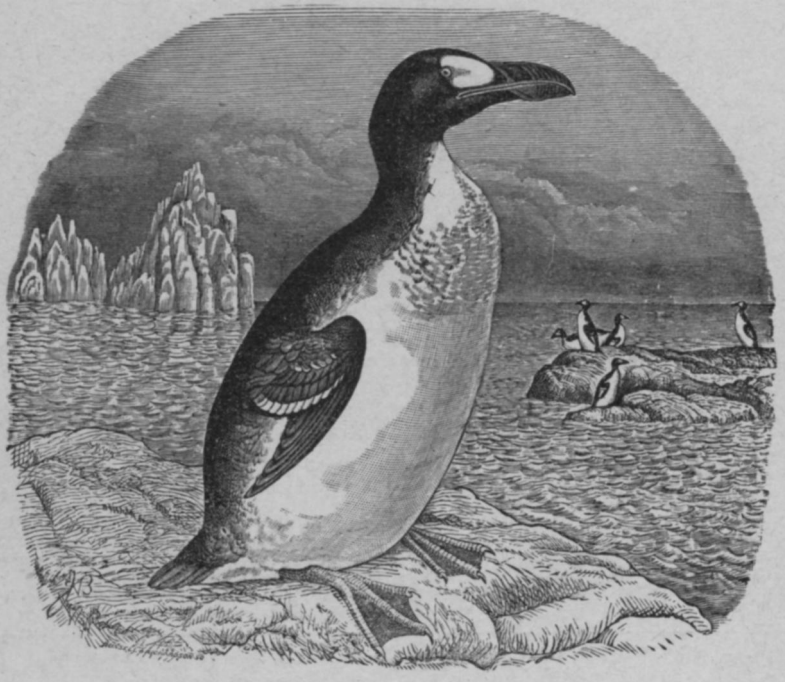
JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

Old Series, Vol. XXXVII | CONTINUATION OF THE BULLETIN OF THE NUTTALL ORNITHOLOGICAL CLUB | New Series, Vol. XXIX

The Auk

A Quarterly Journal of Ornithology

Vol. XXIX APRIL, 1912 No. 2



PUBLISHED BY

The American Ornithologists' Union

CAMBRIDGE, MASS.

Entered as second-class mail matter in the Post Office at Boston, Mass.

CONTENTS.

PAGE

BIRDS OF THE PARAMO OF CENTRAL ECUADOR. By *Samuel N. Rhoads* . . . 141

NOTES ON WHIP-POOR-WILLS AND OWLS. By *Frank Bolles*. With a Foreword By *William Brewster* 150

THE RELATION OF GENERA TO FAUNAL AREAS. By *Spencer Trotter* . . . 159

NOTES ON THE LAYSAN FINCH. By *Hubert Lyman Clark* 166

A LAST WORD ON THE PASSENGER PIGEON. By *C. F. Hodge* 169

THE VALIDITY OF THE RED-LEGGED SUBSPECIES OF BLACK DUCK. By *Charles W. Townsend, M.D.* 176

BIRDS IN THE MARKETS OF SOUTHERN EUROPE. By *Louis B. Bishop, M.D.* . . 179

ADDITIONS TO THE KNOWN ORNITHOLOGICAL PUBLICATIONS OF C. F. RAFINESQUE. By *Samuel N. Rhoads* 191

NOTES ON THE SPRING MIGRATION AT TIMBER LINE, NORTH OF GREAT SLAVE LAKE. By *David E. Wheeler, M.D.* 198

VROEG'S CATALOGUE. By *Witmer Stone* 205

GREAT AUK EGGS IN THE THAYER MUSEUM. By *John E. Thayer*. (Plate XII.) 208

THE LEAST SANDPIPER DURING THE NESTING SEASON IN THE MAGDALEN ISLANDS. By *Robert Thomas Moore*. (Plates XIII and XIV.) 210

FURTHER NOTES ON THE FRUIT-EATING HABITS OF THE SAGE THRASHER IN THE YAKIMA VALLEY, WASHINGTON. By *Clarence H. Kennedy* 224

CERTAIN PHASES OF THE THEORY OF RECOGNITION MARKS. By *W. L. McAtee* . 226

AN APPARENTLY UNRECOGNIZED RACE OF THE RED-SHOULDERED HAWK. By *Louis B. Bishop, M.D.* 232

GENERAL NOTES.— Holbœll's Grebe in Connecticut, 233; The Forked-tailed Gull (*Xema furcatum*), 233; Corys Shearwater in abundance off Long Island, 234; Black Ducks which became very tame, 234; The European Widgeon at Gardner's Island, New York, 235; The Pintail Duck (*Dafila acuta*) in Winter near Portland, Maine, 235; White-winged Scoter (*Oidemia deglandi*) in Minnesota, 236; The Bittern (*Botaurus lentiginosus*) Wintering in New Jersey, 236; Recent Occurrence of the Egret (*Herodias egretta*) near Portland, Maine, 236; The Snowy Egret in New Mexico, 237; King Rail (*Rallus elegans*) at Springfield, Mass., 237; Yellow Rail (*Coturnicops noveboracensis*) in Massachusetts, 237; Yellow Rail in Michigan. A Correction. 237; An Albino Semipalmated Sandpiper, 238; Last Record of the Piping Plover (*Ægialitis meloda*) in New Jersey, 238; Columbian Sharp-tailed Grouse in Wisconsin, 238; Nesting of the Passenger Pigeon (*Ectopistes migratorius*) in New York, 238; Mississippi and Swallow-tailed Kites in Knox Co., Ind., 239; Gray Gyrfalcon (*Falco rusticolus rusticolus*) in Minnesota, 239; Early Occurrence of the Saw-whet Owl, 239; Diurnal Activities of the Great Horned Owl (*Bubo virginianus virginianus*), 240; Status of the Picidæ in the Lower Rio Grande Valley, 241; Difference due to sex in the Black Swift, 241; A Crested Flycatcher in December at Cambridge, Mass., 242; The Starling (*Sturnus vulgaris*) at Springfield, Mass., 243; Starling (*Sturnus vulgaris*) in Chester Co., Pa., 243; Strange Actions of a Red-eyed Cowbird, 244; The Baltimore Oriole (*Icterus galbula*) Wintering in New Jersey, 244; Many Purple Finches at Portland, Maine, in February, 245; Crossbills (*Loxia curvirostra minor*) in Chester Co., Pa., in Summer, 245; Lapland Longspur (*Calcarius lapponicus lapponicus*) in Delaware, 246; White-throated Sparrow in Idaho, 247; Painted Bunting (*Passerina ciris*) in Minnesota, 247; Lawrence's Warbler (*Vermivora lawrencei*) in Chester County, Pa., 247; A Palm Warbler in winter at Boston, Mass., 247; Hooded Warbler (*Wilsonia citrina*) at the Delaware Water Gap, Pa., 249; Mockingbird Notes from Massachusetts, 249; A Catbird spending the Winter in Connecticut. 249; Notes on Hapalopteron familiare (Kittl.), 250; Hermit Thrush Wintering at Easton Pa., 250; Correction, 250; Greenland Wheatear seen in Massachusetts, 250, Stray Notes from New Brunswick, 251; Some British Columbia Records, 252; Eastern Oregon Notes, 253; Additions to Birds of Kerrville, Texas, 254; Recent Records from the Valley of the Lower Rio Grande, 254; The Names "Purple Finch," "Mavis" and "Highole," 255.

RECENT LITERATURE.— Ridgway's Birds of North and Middle America, Part V, 256; Sclater's Birds of Colorado, 258; Howell's Birds of Arkansas, 259; Burns on the Broad-winged Hawk, 259; Bent on Birds of the Aleutian Islands, 260; Nelson and Goldman on New Birds from Panama, 261; Mearns on New African Birds, 261; Herrick's Nests and Nest-Building in Birds, 262; Beebe and Crandall on The Un-

(*Contents continued on p. iii of cover.*)

'THE AUK,' published quarterly as the Organ of the AMERICAN ORNITHOLOGISTS' UNION, is edited, beginning with the Volume for 1912, by Mr. WITMER STONE, of Philadelphia.

TERMS:— $3.00 a year, including postage, strictly in advance. Single numbers, 75 cents. Free to Honorary Fellows, and to Fellows, Members, and Associates of the A. O. U. not in arrears for dues.

Subscriptions should be addressed to DR. JONATHAN DWIGHT, Jr., Business Manager, 134 WEST 71ST ST, NEW YORK, N. Y. **Foreign Subscribers** may obtain 'THE AUK' through R. H. PORTER, 9 PRINCES STREET, CAVENDISH SQUARE, W., LONDON.

All **articles** and **communications** intended for publication, and all **books** and **publications** for notice, should be sent to MR. WITMER STONE, ACADEMY OF NATURAL SCIENCES, LOGAN SQUARE, PHILADELPHIA, PA.

Manuscripts for general articles should reach the editor at least six weeks before the date of the number for which they are intended, and manuscripts for 'General Notes' and 'Recent Literature' not later than the first of the month preceding the date of the number in which it is desired they shall appear.